## FILE OVERVIEW

## DI-17: Digital Surficial Geologic Map and Geographic Database of the Northern Tucson Basin and Tucson Mountains, Pima County, Arizona

by Philip A. Pearthree, Jeanne E. Klawon, William R. Dickinson, Thomas H. Biggs, and Tim R. Orr Arizona Geological Survey, Tucson, AZ December, 1999 1 CD-ROM

This digital product contains detailed information about the surficial geology of the Northern Tucson Basin and the Tucson Mountains. The information comprises a GIS database and a visualization of the data as a default map layout. The map layout is included in an ArcView v3.2 project (.apr) file. This product is intended for use on a Windows 95, Windows NT, or higher platform, and an overview of the files distributed with this product is given in the file tree below. Arcview, or another GIS program capable of opening ESRI shapefiles and coverages, is required to use this product. The installation files for a simple ESRI viewing program, ArcExplorer, have been included with this product if the necessary GIS software is not available. The ArcExplorer program, however, does not take full advantage of the information available in this product.

The ArcView v3.2 project can be opened directly from the CD-ROM by double-clicking the **tsn\_surfgeo.apr** project file in the /projects folder, or on the hard-drive by first copying the /Di-17(Tucson) directory with all subdirectories to the root directory and then double-clicking the project file there. Copying the /Di-17(Tucson) directory into any folder other than the root directory will cause problems when opening the project file. The fonts in the /other/fonts folder must be copied into the C:\(system)\Fonts directory of the local hard drive. Without these fonts, the default project palette (azgsgeopalette.avp, located in the /other/palettes folder) will not display the symbols correctly.

The organization of the data included in this product, as well as the procedures used to create the data set and the feature codes used to attribute the data, are explained in the Data Structure document (tsn\_datastructure.pdf). Complete FGDC-standard metadata files (tsn\_metadata.txt and tsn\_metadata.htm) are located in the /text folder.

Documents distributed in Adobe PDF format and can be viewed using Adobe Acrobat Reader. Adobe Acrobat Reader can be downloaded for free from the Adobe website: <a href="http://www.adobe.com">http://www.adobe.com</a>

## **Di-17(Tucson)** – parent folder

**arcexplorer** – folder containing self-extracting installation programs for ArcExplorer, a GIS data viewer

**aeclient** – installs ArcExplorer 1.1 (requires that Service Pack 3 or higher is installed if being used with Windows NT)

**import71** – installs the ArcExplorer 1.1 Import Utility that converts ArcInfo interchange files (\*.e00) into ArcInfo coverages that can then be used in ArcExplorer

arcexports - folder containing the export files for the Arc\Info coverages
 tsn\_geo.e00 - export file for the geology polygons and lines coverage
 tsn\_lin.e00 - export file for the coverage containing geologic lines not
 defining polygon boundaries
 tsn\_pnt.e00 - export file for the geologic points coverage

coverages - Arc\Info workspace containing coverages for this project
 tsn\_geo - Arc\Info coverage for the geology polygons and lines
 tsn\_lin - Arc\Info coverage for the geologic lines not defining polygon
 boundaries
 tsn pnt - Arc\Info coverage for the geologic points

**graphics** – folder containing graphic files with default visualizations of the project maps

**DI-17digital\_layout.pdf** – default visualization in Adobe PDF format **OFR99-21sheet1of1.jpg** – low quality JPEG browse graphic of Sheet 1 linework that accompanies OFR99-21 written report **OFR99-22sheet1of2.jpg** – low quality JPEG browse graphic of Sheet 1 linework that accompanies OFR99-22 written report **OFR99-22sheet2of2.jpg** – low quality JPEG browse graphic of Sheet 2 linework that accompanies OFR99-22 written report

legends - folder containing the legend files for the ArcView project
 cartosym.avl - symbolizes the cartographic symbols theme
 textleaders.avl - symbolizes the text lead-in lines theme
 tsn\_conceal.avl - symbolizes the concealed faults theme
 tsn\_contacts.avl - symbolizes the contacts, the faults, and the map
 boundary themes
 tsn\_structure.avl - symbolizes the structure symbols theme

tsn\_units.avl – symbolizes the *map units* theme

other – folder containing additional files used in the ArcView project
fonts – folder containing fonts required for correct symbol display
AZesri\_1.tff – AZ\_ESRI Cartography True Type Font
AZesri\_7.tff – AZ\_ESRI Geology True Type Font
esri\_1.tff – ESRI Cartography True Type Font
esri\_3\_0.tff – ESRI Geometric Symbols True Type Font
esri\_4.tff – ESRI Oil, Gas, & Water True Type Font
esri\_7\_0.tff – ESRI Geology True Type Font
palettes – folder containing the ArcView palette used in this project
azgsgeopalette.avp – the ArcView Palette used for this project

scripts – folder containing scripts useful for labeling text themes
 lbltheme.ave – a script that retrieves the labels associated with cartographic text label points created using maktheme.ave
 maktheme.ave – a script that takes graphic lext labels in a view and creates a shapefile with the labels as points; lbltheme.ave can be used to retrieve the label points

**projects** – folder containing the ArcView project

**tsn\_surfgeo.apr** – ArcView 3.2 project file for the Northern Tucson Basin and Tucson Mountains GIS product

**shapefiles** – the cartographic shapefiles for the project

**tsn\_carto.shp** (.dbf, .shx) – shapefile containing the points that define the location of text labels and cartographic symbols

**tsn\_leaders.shp** (.dbf, .shx) – shapefile containing the cartographic lines used as text lead-in lines

**tables** – the dBase tables that contain the 'lookup' data for the coverages and shapefiles

**tsn\_anno.dbf** – table describing the symbolization of all point features **tsn\_color.dbf** – defines RGB values for colors used in the default symbolization

**tsn\_concept.dbf** – table of concept names associated with geologic and cartographic objects

**tsn\_grline.dbf** – table defining the graphical specification for line symbols in the default symbolization

**tsn\_struc.dbf** – table containing orientation information for structural points in the sanbern\_pnt coverage

**tsn\_units.dbf** – table defining the geologic map units

text – the metadata and other files that accompany and help describe this project
 OFR99-21TucBasin.pdf – Arizona Geological Survey Open-File Report
 99-21; Surficial Geology and Geologic Hazards of the Northern Tucson
 Basin, Pima County, Arizona

**OFR99-22TucMtn.pdf** – Arizona Geological Survey Open-File Report 99-22; Surficial Geology and Geologic Hazards of the Tucson Mountains, Pima County, Arizona

**tsn\_datastructure.pdf** – an introduction and guide to the data structure of this project

**tsn\_metadata.htm** – the FGDC metadata for this project in HTML format **tsn\_metadata.txt** – the FGDC metadata for this project in plain text format

topos – USGS 1:24,000 topographic base maps for the project area

DRGMetadata – folder containing the metadata file for the DRG maps

drg metadata.htm – the metadata for the DRG maps

**avra.tif** (.tfw) – scanned TIFF image of the Avra quadrangle with its associated world file

**brown\_mtn.tif** (.tfw) – scanned TIFF image of the Brown Mountain quadrangle with its associated world file

**cat\_mtn.tif** (.tfw) – scanned TIFF image of the Cat Mountain quadrangle with its associated world file

**jaynes.tif** (.tfw) – scanned TIFF image of the Jaynes quadrangle with its associated world file

**sabino.tif** (.tfw) – scanned TIFF image of the Sabino Canyon quadrangle with its associated world file

**tucson\_n.tif** (.tfw) – scanned TIFF image of the Tucson North quadrangle with its associated world file

**DI-17digital\_layout.jpg** – low quality JPEG browse graphic of the geologic map layout

**tsn\_coverpage.pdf** – the DI-series title page for this digital product

**tsn\_fileoverview.pdf** – an overview of the files included in this digital product in Adobe PDF format

**tsn\_fileoverview.htm** – an overview of the files included in this digital product in HTML format